

H



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/731,850	12/08/2000	Fumiko Yano	1163-0306P	8820

7590 10/06/2003

BIRCH, STEWART, KOLASCH & BIRCH, LLP  
P.O. BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER
----------

FOULADI SEMNANI, FARANAK

ART UNIT	PAPER NUMBER
----------	--------------

2672

DATE MAILED: 10/06/2003

12

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/731,850

Applicant(s)

YANO, FUMIKO

Examiner

Faranak Fouladi

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☒ Claim(s) 1-15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

#### **DETAILED ACTION**

1. This action is responsive to communications: RCE filed on 06/27/2003; IDS, filed on 06/27/2003; and Amendment C, filed 06/27/2003.
2. New claim 15 has been added.
3. Claims 1-15 are pending in the case, with claims 1, 6, 11, 13 and 15 being independent.
4. The present title of the application is "Character Display Device and Character Display Method" (as originally filed).
5. A copy of raw machine translation of Seto et al. JP, 10-293569A (Canon Inc.) which has been used as a reference for examination of this application is included. This copy is paginated and paragraphs are identified by numbers enclosed in brackets [], which correspond to the same paragraphs in Japanese copy of the reference.

#### ***Claim Objections***

6. Claims 1-15 are objected to because of the following informalities.
7. Claim 1 is objected to because of the following informalities:
  - "a dot pattern" in line 6 of the claim on page 2 is inconsistent with line 3 of the claim on page 1 in amendment C.
  - "a calculated display position" in line 8 of the claim on page 2 is inconsistent with line 3 of the claim in amendment C.

8. Claim 3 is objected to because of the following informalities:

- “a normal and a sloping character” in line 3 of the claim on page 38 of specification is inconsistent with line 5-6 of the claim 2 on the same page.
- “a display angle of a character series” in line 4 of the claim on page 38 of specification is inconsistent with line 6-7 of the claim 2 on the same page.

9. Claim 4 is objected to because of the following informalities:

- “a display angle” in line 3 of the claim on page 38 of specification is inconsistent with previous claims.

10. Claim 5 is objected to because of the following informalities:

- “a display angle” in line 3 of the claim on page 39 of specification is inconsistent with previous claims.

11. Claims 11 is objected to because of the following informalities:

- “a proximal reference point” in line 8 of the claim on page 3 is inconsistent with line 6 of the claim in amendment C.
- “a dot pattern” in line 9 of the claim on page 3 is inconsistent with line 6 of the claim in amendment C.
- ❖ “...displays one or more characters of a character string in a desired position on a display device..” in preamble of the claim is inconsistent with “a display control part that controls the positional display of each character based on the calculated display coordinate.”
- ❖ Claims 13 and 15 are also objected for the similar reason.

12. Claim 13 is objected to because of the following informalities:

- “a character string” in line 6 of the claim on page 3 is inconsistent with the first line of the claim in amendment C.
- “a proximal reference point” in line 7 of the claim on page 3 is inconsistent with line 5 of the claim in amendment C.
- “dot pattern” in line 1 of the claim on page 4 is inconsistent with line 5 of the claim on page 3 in amendment C.

13. Claim 15 is objected to because of the following informalities:

- “a proximal reference point” in line 7 of the claim on page 4 is inconsistent with line 5 of the claim in amendment C.
- “dot pattern” in line 8 of the claim on page 4 is inconsistent with line 5 of the claim in amendment C.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112 second paragraph (insufficient antecedent basis for claim limitations).

14. Claim 1 recites the limitation "said proximal reference point" in line 4 of the claim on page 2.

15. Claim 6 recites the limitation "said proximal reference point" in line 6-7 of the claim on page 2.

16. Claim 11 recites the limitations:

- "the display coordinates of each dot pattern" in line 9 of the claim on page 3,
- "the positional display" in line 11 of the claim, and
- "the calculated display coordinates" in line 12 of the claim in amendment C.

17. Claim 13 recites the limitations:

- "the display coordinates of each dot pattern" in line 1 of the claim on page 4, and
- "the calculated display coordinates" in line 3 of the claim on page 4 in amendment C.

18. Claim 15 recites the limitations:

- "the display coordinates of each dot pattern" in line 8 of the claim on page 4,
- "the positional display" in line 10 of the claim,
- "the calculated display coordinates" in line 11 of the claim,
- "the dimensions" in line 12 of the claim, and
- "said calculated display position" in line 13 of the claim in amendment C.

There is insufficient antecedent basis for these limitations in the aforementioned claims.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

19. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Seto et al. Publication Number JP, 10-293569A (Canon Inc.) hereafter Sato.

20. As per independent claim 1, "a character display device to display one or more characters without modification, comprising:

a recording means recording dot patterns and proximal reference points of each character of a character series;

(Sato teaches in Drawing.1 reference numbers 9 and 11, in paragraph [0002] line 2 on page 3, in paragraph [0010] line 21 on page 6 through line 4 on page 7.)

a coordinate calculation means obtaining said proximal reference point of each character of said character series from said recording means and calculating a display position of each character from a display angle, display reference position and said proximal reference point of said character series; and

(Sato teaches in Drawing.1 reference numbers 12 and 13 and in paragraph [0010] line 4-17 on page 7.)

a display means obtaining a dot pattern for each character of said character series from said recording means and displaying each character based on a calculated display position of each character calculated by said coordinate calculation means."

Seto teaches in Drawing.1, 5, 6, 8 and 9 and in paragraph [0029] line 10 on page 14 through [0037] line 3 on page 16.).

21. As per dependent claim 2, "a character display device according to claim 1, wherein, when said recording means record dot patterns and proximal reference points of sloping characters which slope at an arbitrary angle apart from normal non-sloping characters, said display means and said coordinate calculation means select a normal character or a sloping character depending on a display angle of said character series and obtain dot patterns and proximal reference points of said



selected characters.” Seto teaches in paragraph [0010] line 11-23 on page 7 and reference # 13 on Drawing.1, and in paragraph [0029] line 14 on page 14 through paragraph [0032] line 11 on page 15.

22.As per dependent claim 3, “a character display device according to claim 2, wherein said display means and said coordinate calculation means compare an angle of slope of a normal and a sloping character with a display angle of a character series and select a normal character or a sloping character having an angle of slop most approximating said display angle.” Seto teaches in Drawing.9, and in paragraph [0036] line 23 on page 15 through paragraph [0042] line 22 on page 16.

23.As per dependent claim 4, “a character display device according to claim 1, further comprising an input means allowing input of a character series to be displayed, and a display angle and display reference position of said character series.” Seto teaches in Drawing. 1 reference #4-6 and in paragraph [0010] line 23 on page 5 through line 7 on page 6 and also Drawing. 4.

24.As per dependent claim 5, “a character display device according to claim 1, further comprising a reading means reading a character series to be displayed being recorded in a memory, and a display angle and reference position of said

character series.” Seto teaches in Drawing. 1 reference #10 and 11 and in paragraph [0010] line 23 on page 6 through line 4 on page 7.

25. Claims 6-10 recite method steps performed by the character display device of claims 1-5; therefore they are similar in scope and rejected under the same rationale.

26. Claims 11 and 15 are similar to claim 1 and also claim 13 is similar to claim 6; therefore they are similar in scope and rejected under the same rationale.

27. Dependent Claims 12 and 14 claim “... wherein the character display data includes the characters to be displayed, an angle of display and a position of display.” Sato teaches in paragraph [0010] lines 21-22 on page 6 as “character deformation information” and in lines 5-7 on page 7.

### ***Conclusion***

28. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Faranak Fouladi** whose telephone number is **703-305-3223**. The examiner can normally be reached on Mon-Fri from 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi** can be reach at **703-305-4713**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

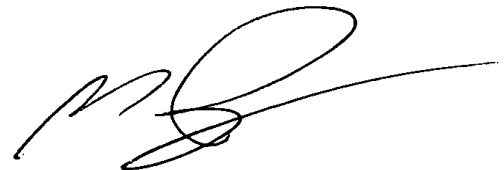
Washington, DC. 20231

**Or faxed to: 703-872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, sixth-floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-872-9306.

**Faranak Fouladi-Semnani**  
**Patent Examiner**  
**Art Unit 2672**



**MICHAEL RAZAVI**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**